



# SPAFID CONNECT

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Societa' : ELES SEMICONDUCTOR EQUIPMENT  
S.P.A.

Identificativo : 120257

Informazione  
Regolamentata

Nome utilizzatore : ELESN01 - FRANCESCA ZAFFARAMI

Tipologia : REGEM

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Diffusione presunta

Oggetto : ELES PATENTS A REVOLUTIONARY  
TECHNOLOGY

*Testo del comunicato*

Vedi allegato.



## **ELES PATENTS A REVOLUTIONARY TECHNOLOGY**

***“ELES ADAPTIVE LIQUID COOLING”***  
**IS CURRENTLY THE ONLY SOLUTION OF ITS KIND  
TO GUARANTEE THE NECESSARY  
ACCELERATED THERMAL STRESS  
IN SEMICONDUCTOR TESTING UP TO 1000W,  
FOR QUALIFICATION AS WELL AS MANUFACTURING.**

*Todi (PG), 1st July 2019 - ELES S.p.A., an innovative SME in the Microelectronics Testing arena for Aerospace & Defence, Automotive, Consumer Electronics and Semiconductors, announces the registration of a revolutionary patent in the area of semiconductor devices.*

This technology enables heat from large, complex and power-hungry semiconductors (such as the high-end System-on-chip) to be quickly and efficiently removed during testing. This not only allows optimal operation of these devices but also prevents degradation and permanent damage. The intensity of the heat which is radiated by such devices require very concentrated cooling and increasingly more extreme thermal management solutions. The challenge is innovation able to guarantee the proper functioning of the device in such critical conditions.

**Antonio Zaffarami**, President of ELES said: *“The manufacturers of test equipment, have struggled to cope with this accelerating trend in power dissipation and thermal management. Up to now only one supplier has succeeded in providing the market with a solution. However, such equipment from this US company comes with a very high price tag for qualification labs, but not suitable for production. Thanks to its thirty years’ experience and innovative capacity, ELES has developed an Adaptive Liquid Cooling solution capable of processing a wide range of products, able to handle between 10 - 1,000 watt of thermal dissipation and suitable for both qualification and production testing”.*

*“The following are some of the innovative features of this liquid cooling solution:*

- *ELES’ Adaptive Liquid Cooling is an upgrade kit for the ELES ART 530 System in manual mode (ideal for Qualification) as well as automated (for Production).*
- *The very high thermal performance of the Adaptive Liquid Cooling solution allows the application of an accelerated stress matrix covering the extreme operating limits of the device to be tested. Together with the ELES R.E.T.E. approach, further faults can be triggered in the silicon and package, thus providing the chipmakers with a superior tool to improve reliability towards providing "zero defects" to their customers. This is a distinctive factor and Mission of ELES.*
- *ELES Adaptive Liquid Cooling allows the use of traditional test fixtures, as it is equipped with an automatic positioning and centering device on the units to be tested. This simplifies the application and reduces the cost of the related test.”*

**Francesca Zaffarami**, CEO of ELES commented, *"Thanks to this innovation, we will finally extend our R.E.T.E. solution to all HIGH-POWER DISSIPATION devices up to 1000W! It is necessary to continue to expand the range of products that can be processed with ELES systems and the R.E.T.E. solution, so that these become more and more universal. We enter a new market with a very innovative, competitive and universal solution, based on our ART architecture, rendering obsolete what is currently offered on the market. We will gain market share presenting our new product to the ‘Silicon Valleys’ worldwide. We will offer Customers the distinctive advantages of the R.E.T.E. solution: 1) greater reliability towards zero defects 2) reduction of the cost of the test 3) reduction of the time to market 4) improvement in the management of complexity”.*

#### **SOME ELES FINANCIAL FIGURES THANKS TO THE R.E.T.E. APPROACH**

- Revenue increase 2016-2018 **+77%** approx
- EBIT increase 2016-2018 **+260%** approx
- Exports for Q1'19 **80%** approx

#### **Code Identifiers**

Ordinary Shares: ISIN (International Security Identification Number) **IT0005373417**

ISIN Warrant **IT0005374258**.

Ticker: **ELES.MI**



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**For more information**

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Eles S.p.A. (Eles), founded in 1988, designs and manufactures semiconductor test solutions (SOC, MEMS and Memories). Eles produces universal test systems together with Engineering Services for reliability tests, having developed a co-engineering process with its customers aimed at guaranteeing 'Zero Defect' microelectronic devices. The Company also develops customised test applications for devices to be tested on its universal systems, along with the data management of test results. Eles counts among its customers multinational companies producing semiconductors and manufacturers of electronic modules for Automotive, Aerospace and Defense sectors. Eles' growth strategy is through internal growth by penetration of new markets, diversification of customers and improvement of existing solutions, as well as growth through acquisition for faster expansion overseas.

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